## **PATENT COOPERATION TREATY**

To:				PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
	see form	PCT/ISA/220							
					(PCT Rule 43bis.1)				
				Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)				
	ant's or agent's file			FOR FURTHER ACTION See paragraph 2 below					
	International application No. International filing date PCT/JP2004/007879 01.06.2004			l (day/month/year)	Priority date (day/month/year) 10.06.2003				
Internat	tional Patent Clas	sification (IPC) or	both national classification	and IPC					
B41J2		silication (ir c) or	Dour Hauoriai Ciassilication	and IPC					
Applica	ınt								
	ON KABUSHIK	KAISHA							
1. 1	This opinion co	ntains indication	ons relating to the foll	lowing items:					
Σ	☑ Box No. I	Basis of the op	nion ·						
_	Box No. II	Priority							
	Box No. III	•	nent of opinion with rea	ard to novelty, inve	tive step and industrial applicability				
_	Box No. IV	The second of the second with regard to neverly, inventive step and industrial applicability							
_	Box No. V	====							
	Box No. VI	Certain docum	ents cited						
	Box No. VII	Certain defects	in the international app	olication					
	Box No. VIII	III Certain observations on the international application							
2. <b>F</b>	URTHER ACTI	ON							
w ti ir	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.								
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.									
F	For further options, see Form PCT/ISA/220.								
3. F	or further details	s, see notes to F	Form PCT/ISA/220.						
Vame a	nd mailing addres	s of the ISA:		Authorized Officer		nes Patente			
	<u>all</u>	otant Office D.D.	. 5818 Patentlaan 2		- Syspetime -	<b>11</b> [			
	¶∭ European F	atent Office - P.B	. Joi o Falentiaan /	l .	•				
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/007879

_	Box	No. I Basis of the opinion				
1.	Witl the	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.				
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	With	n regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and essary to the claimed invention, this opinion has been established on the basis of:				
	a. ty	pe of material:				
	[	a sequence listing				
		able(s) related to the sequence listing				
b. format of material:						
	C	in written format				
	Ε	in computer readable form				
c. time of filing/furnishing:		ne of filing/furnishing:				
	C	contained in the international application as filed.				
	Е	filed together with the international application in computer readable form.				
	ב	furnished subsequently to this Authority for the purposes of search.				
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	Additional comments:					

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/007879

	Bo	x No. II	Priority								
BOX NO. II Priority											
1.	. Mathematical The following document has not been furnished:										
		⊠	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).								
	☐ translation of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> 1 and 66.7(b)										
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.										
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.										
3.	Add	ditional c	bservations, if neces	ssary:	•						
			•	,							
_	- Po	k No. V	Passanad states		lan Dula 40						
			neasoned staten applicability; citatio	ns and o	er Ruie 43 explanatio	bis.1(a)(i) with regard to nove s supporting such statemen	eity, inventive step or t				
1.	Sta	tement									
	Nov	elty (N)		Vec.	Claims	3	•				
		city (14)		No:	Claims	1,2,4-8					
	Inve	entive st	ep (IS)		Claims	· <b>3</b>					
				No:	Claims	1,2,4-8					
	Indu	ustrial a	oplicability (IA)	Yes:	Claims	1-8					
				No:	Claims		·				
2.	Cita	itions an	d explanations								

see separate sheet

## Re Item V.

1. The following documents are referred to in this communication:

D1: US 6 435 668 B1 (BARBOUR MICHAEL J ET AL) 20 August 2002 (2002-

08-20)

D2: EP 1 266 758 A (CANON KK) 18 December 2002 (2002-12-18)

The application does not meet the requirements of Article 6 PCT, because claims 5 to 8 are not clear. These claims are drafted as independent claims but they all contain all the features of independent claim 1. These claims are therefore considered dependent on claim 1.

- 3. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1,2,4-8 is not new in the sense of Article 33(2) PCT.
- 3.1 Document D1 discloses (the references in parenthesis applying to this document):

An ink jet printhead substrate(410) on which are mounted electrothermal transducers(416) for generating thermal energy utilized to discharge ink and driver circuits for driving said electrothermal transducers, comprising a logic circuit (fig. 31) for outputting a block selection signal (3120) and an element driving signal (DATA), which are for each electrothermal transducer in a selected block, at a second voltage amplitude level based upon an input signal of a first voltage amplitude level ( thanks to the AND gate 3125 and the Level shifter 3130); and a driver circuit (3110) for driving the electrothermal transducers in block units based upon the block selection signal and element driving signal from said logic circuit.(claim 1)

- 3.2 Document D1 discloses also all the features of claims 2,4-8.
- 3.3 Document D2 discloses all the features of claims 1,5-8.